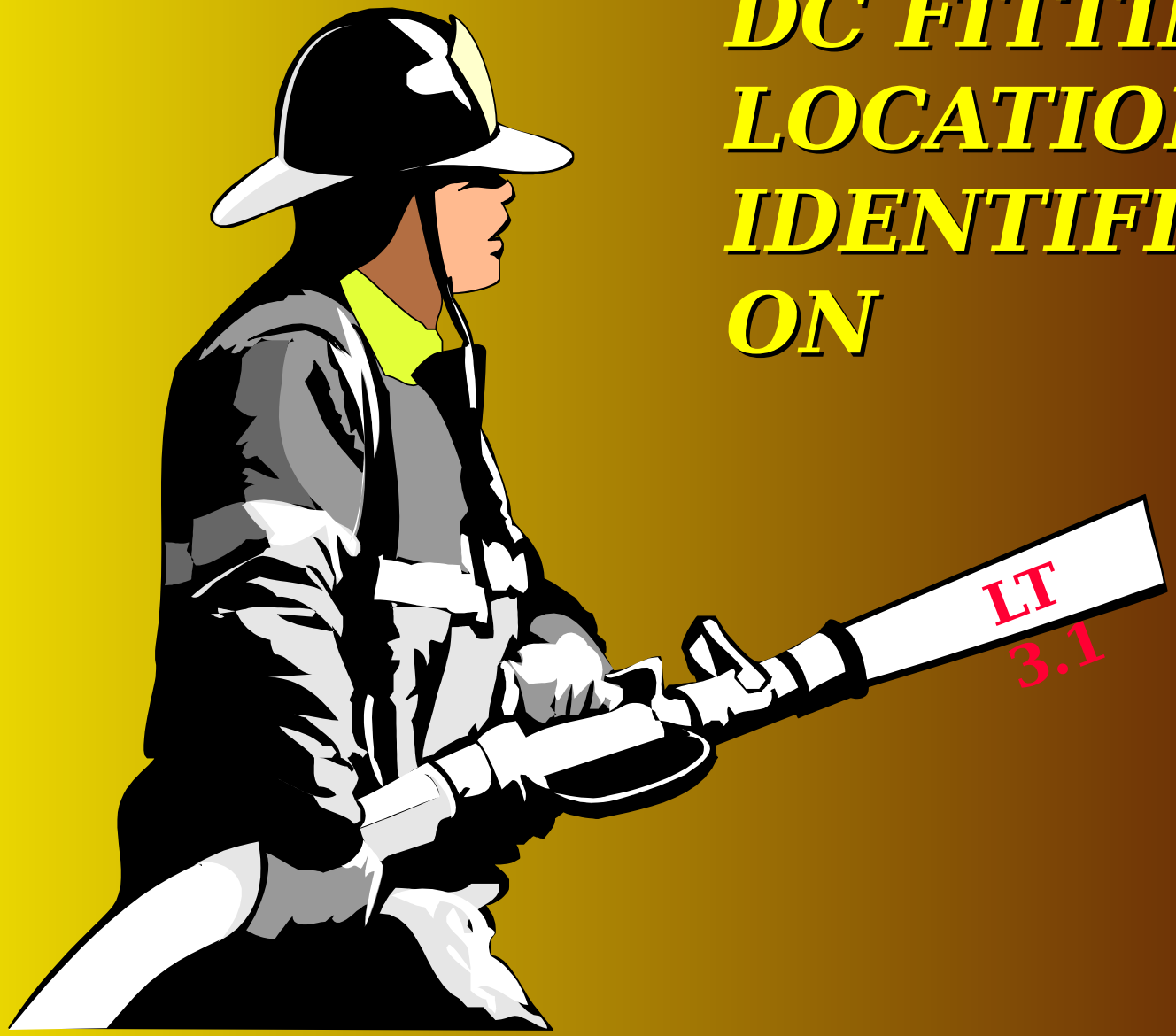
DC FITTINGS LOCATION & IDENTIFICATION



ENABLING OBJECTIVES

- DESCRIBE the purpose, function, types, and locations of DC Compartment Check Off Lists (CCOLs)
- DESCRIBE how to identify compartments & DC fittings by using DC numbering system
- EXPLAIN how to number a new DC fitting using the DC numbering system
- DESCRIBE the information available in the ship’s DC book and diagrams

TEN COMMANDMENTS OF DAMAGE CONTROL

❶ Keep your ship watertight

- Do not violate material condition
- Have confidence in your ship's ability to withstand severe damage
- Know your way around -- even in the dark!

❺ ***Know how to use & maintain damage control equipment***

- ***Report damage to the nearest Repair Locker***

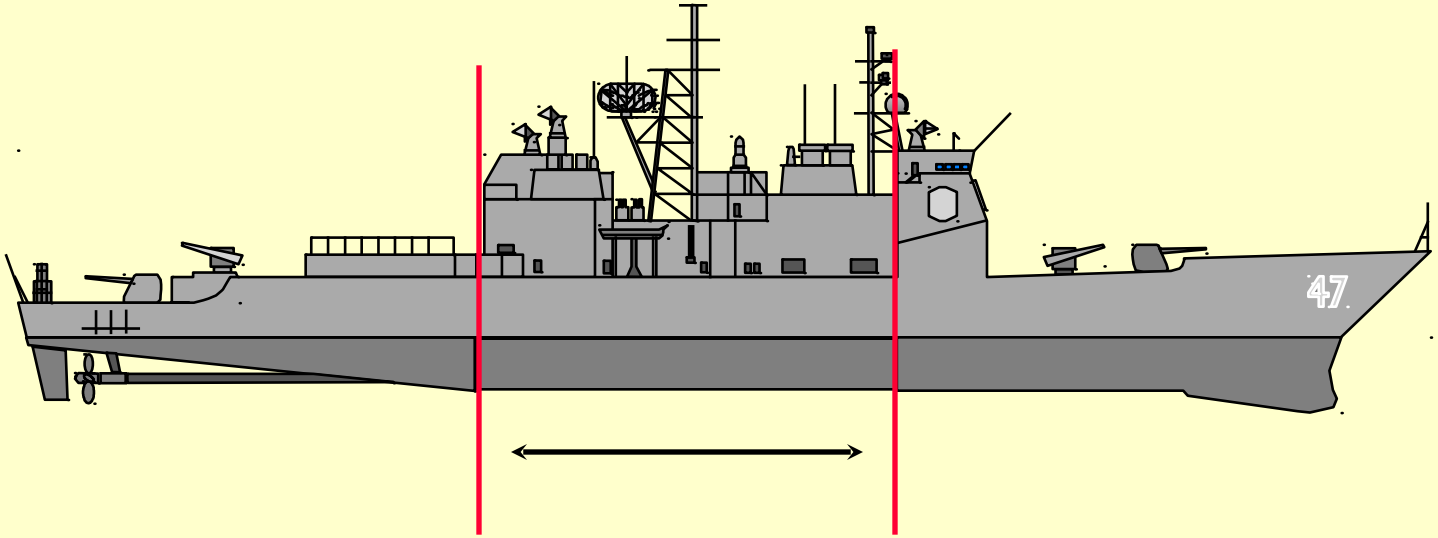
TEN COMMANDMENTS OF DAMAGE CONTROL

❼ Keep personal articles properly secured

- Practice personal damage control. Protect yourself so you can protect your ship!
- Take every possible step to save the ship as long as a bit of hope remains.
- Keep cool; don’t give up the ship!

DAMAGE CONTROL FITTINGS

- **All** crewmembers must be able to operate key damage control equipment & fittings to control/stop damage
- To do this, **everyone** must have clear understanding of shipboard compartment & DC fitting numbering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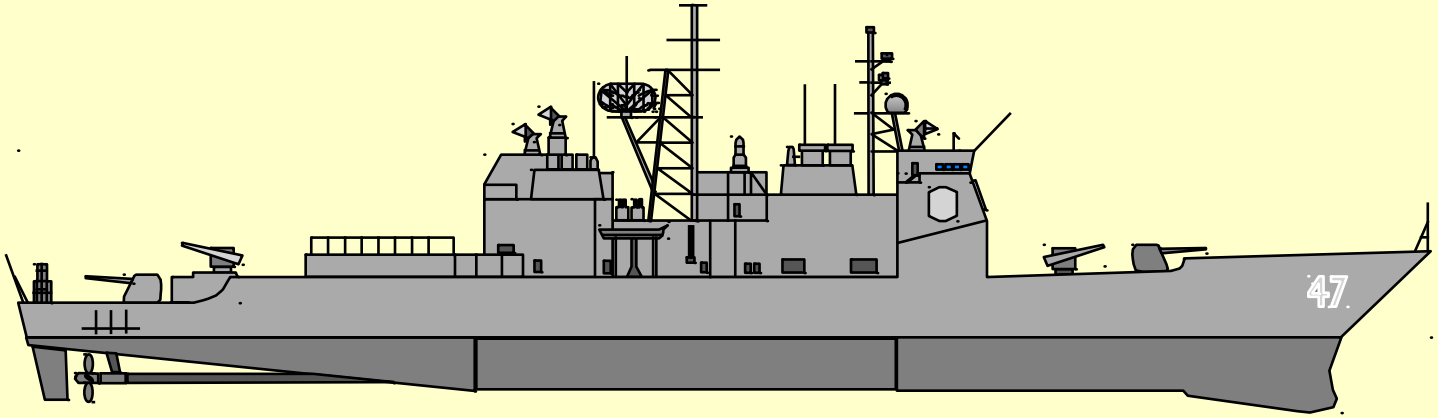
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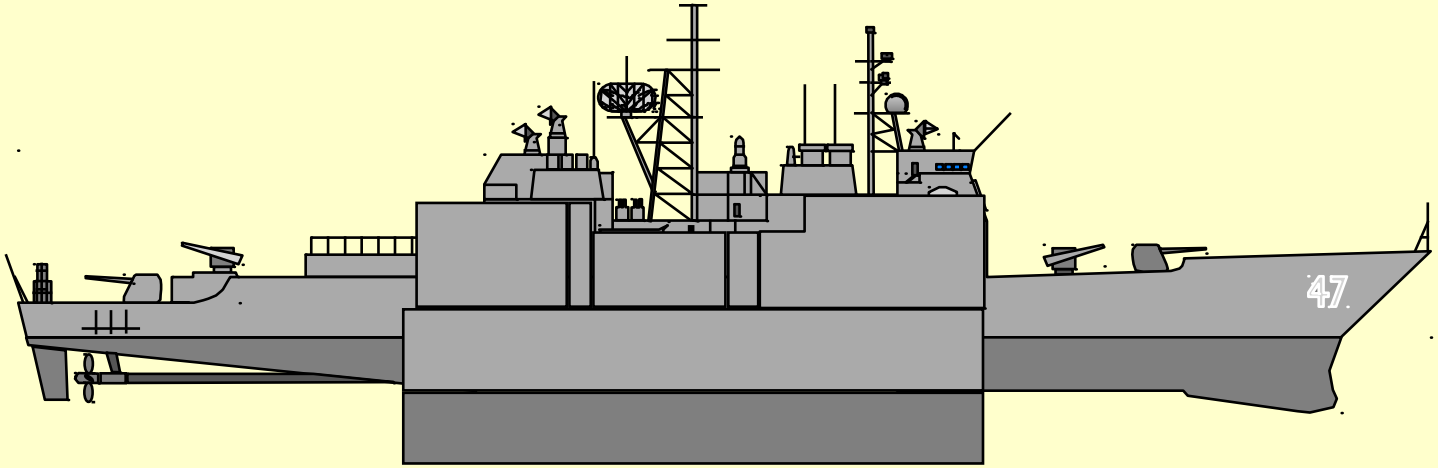
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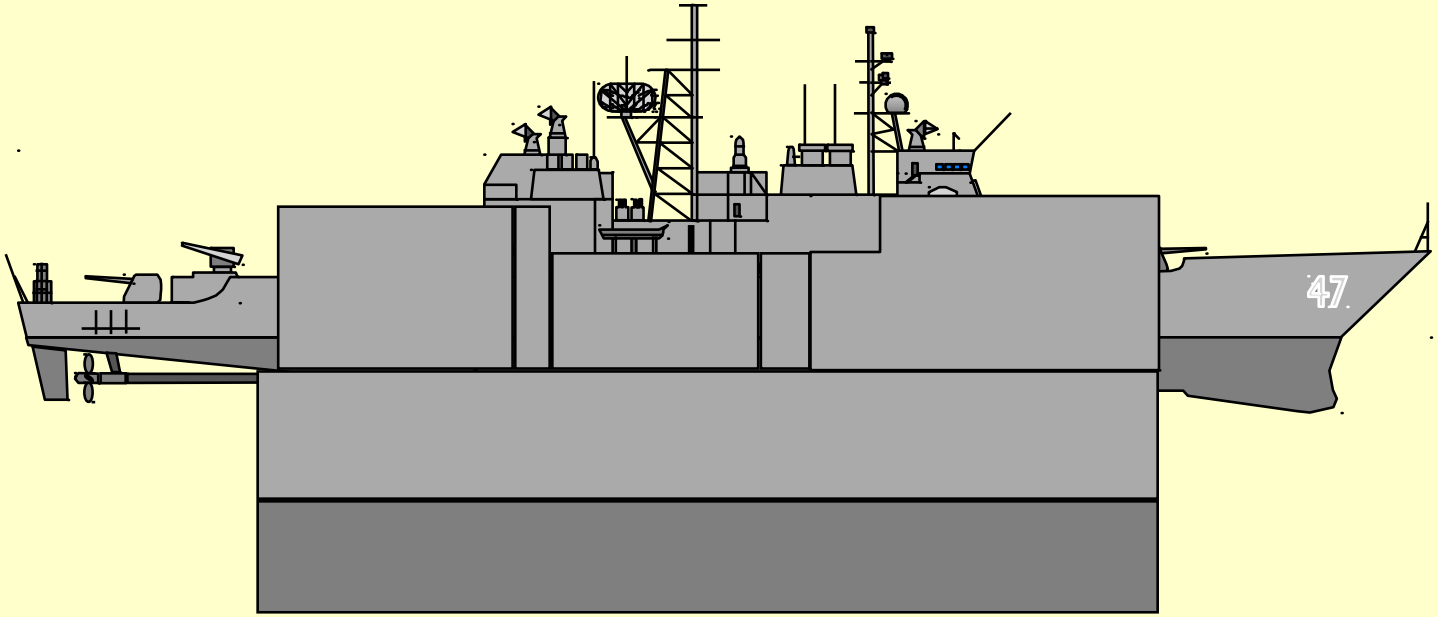
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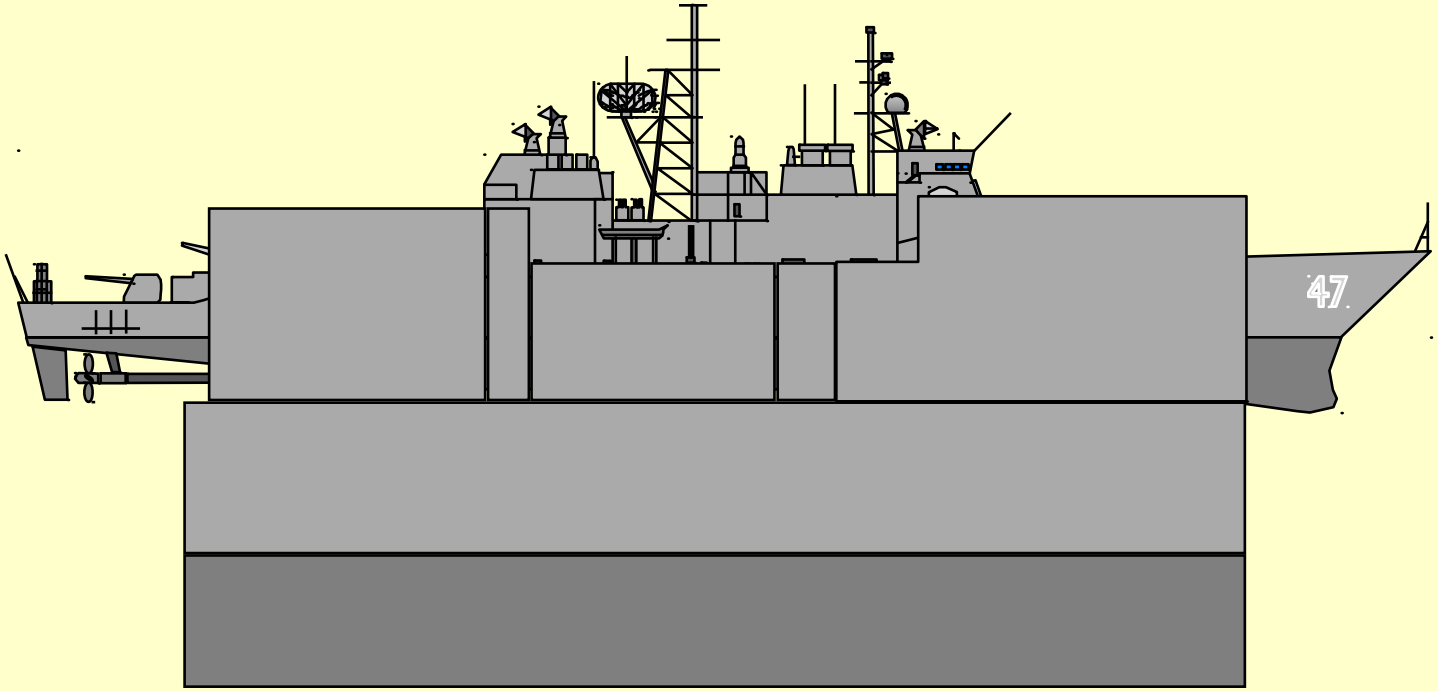
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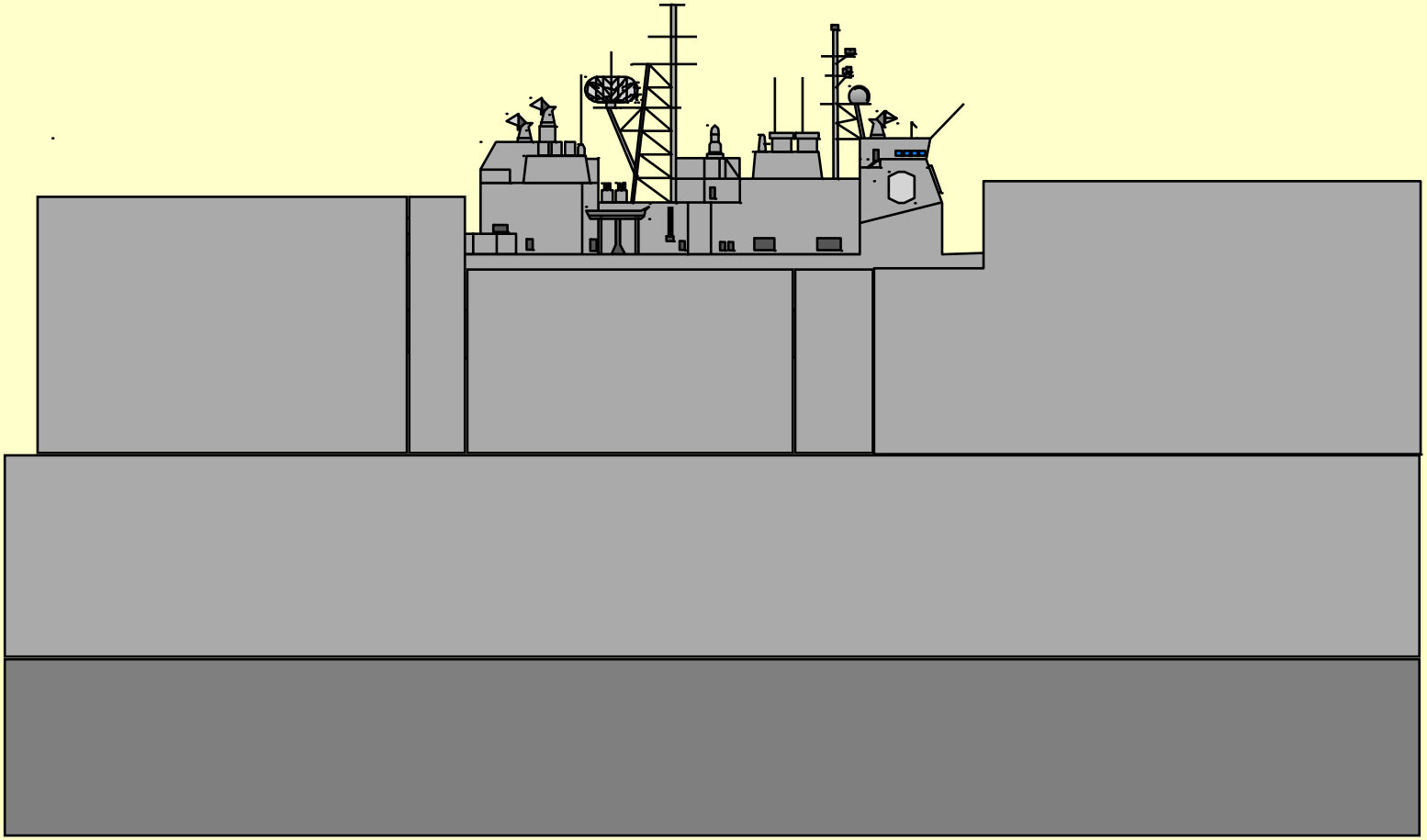
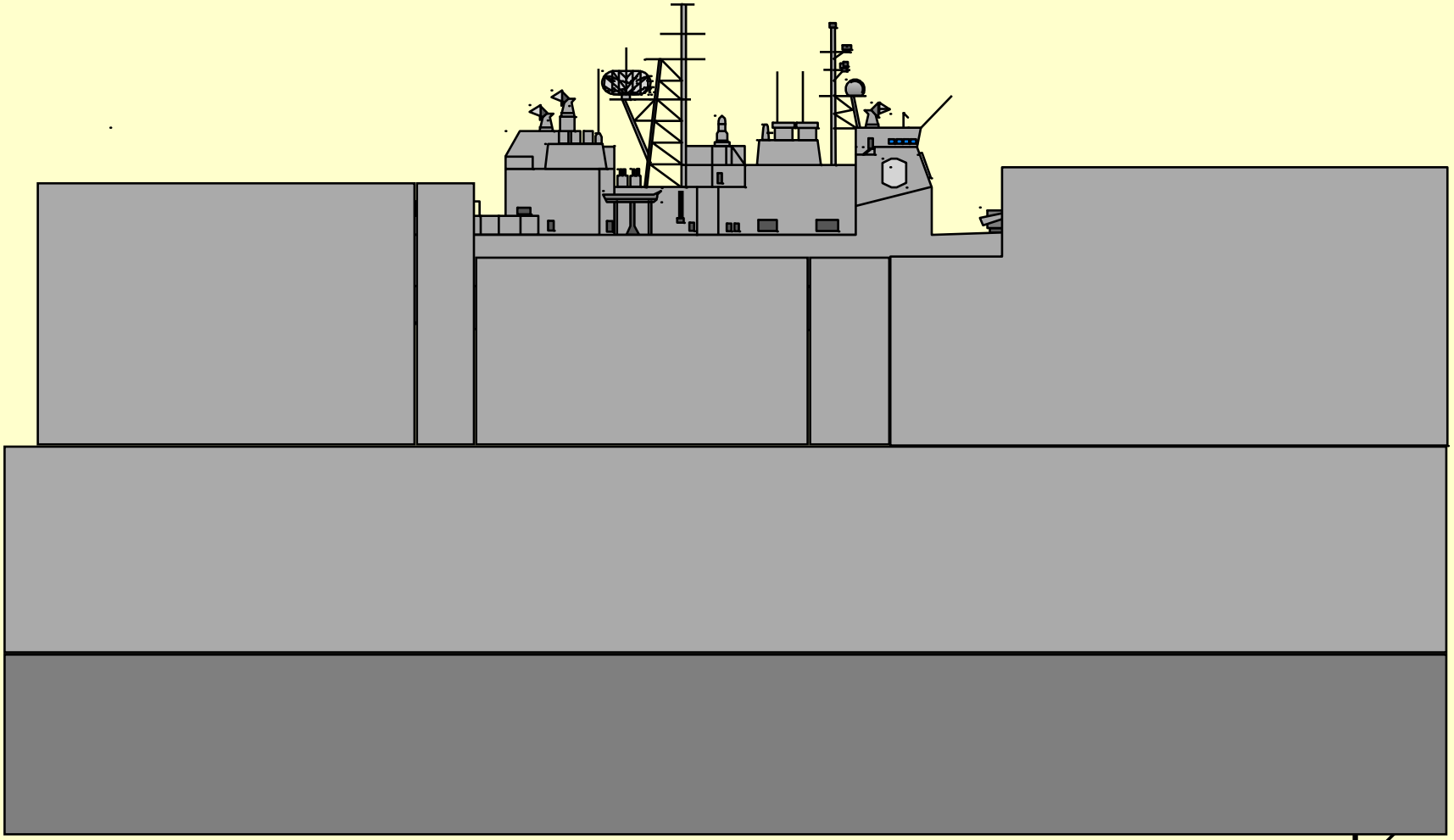
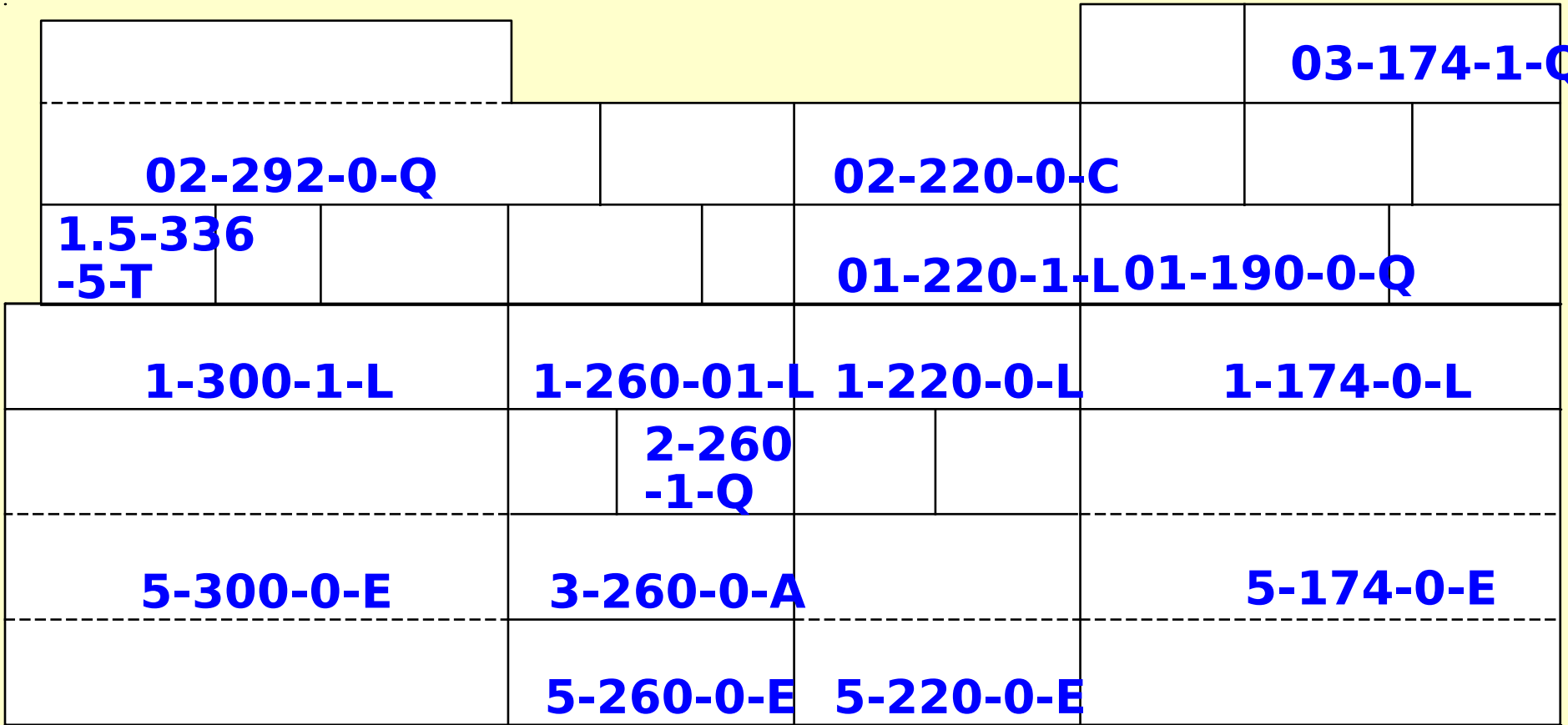




Compartment Numbering

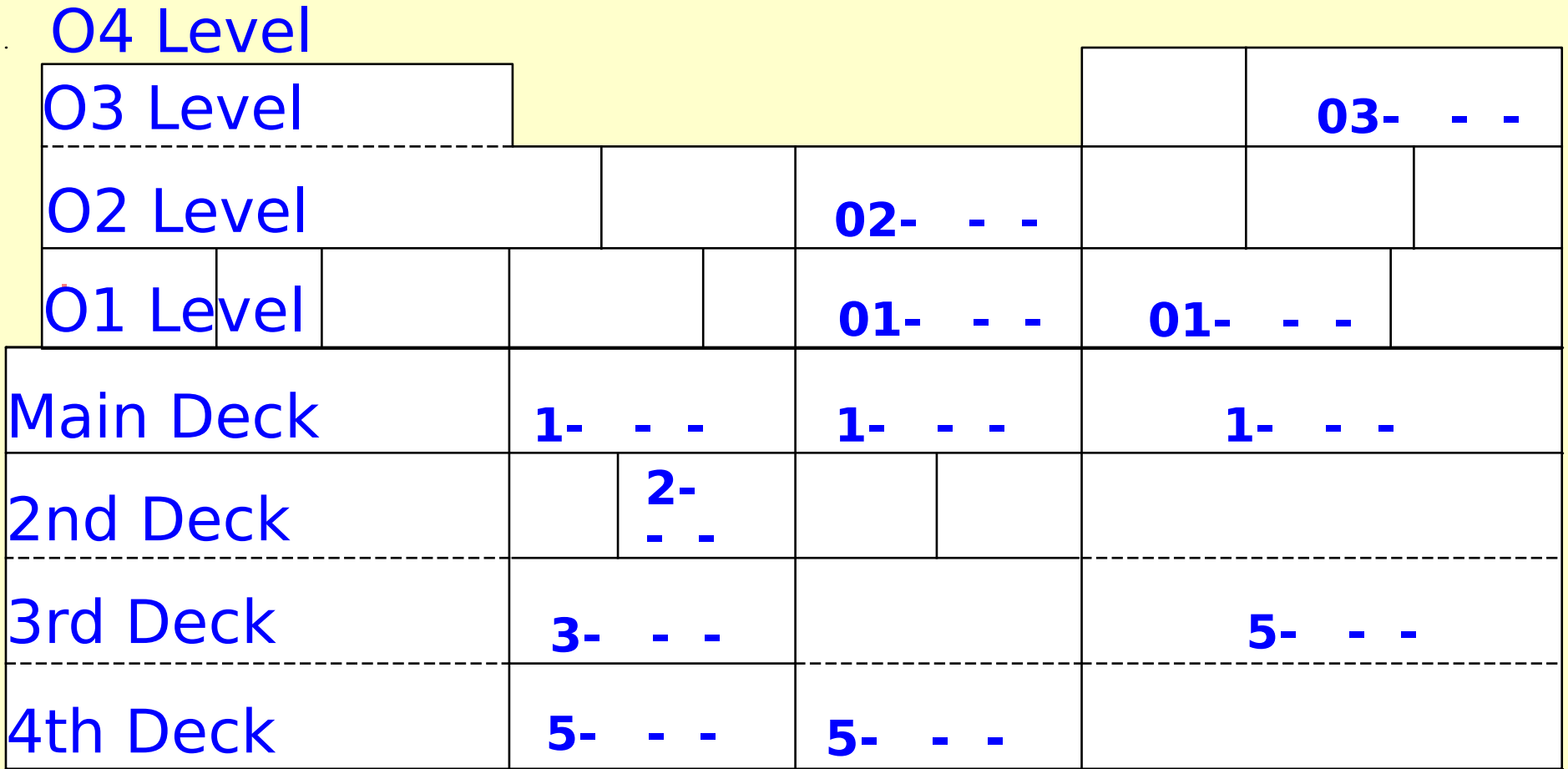
The Finished Product



Compartment Numbering

Deck Number

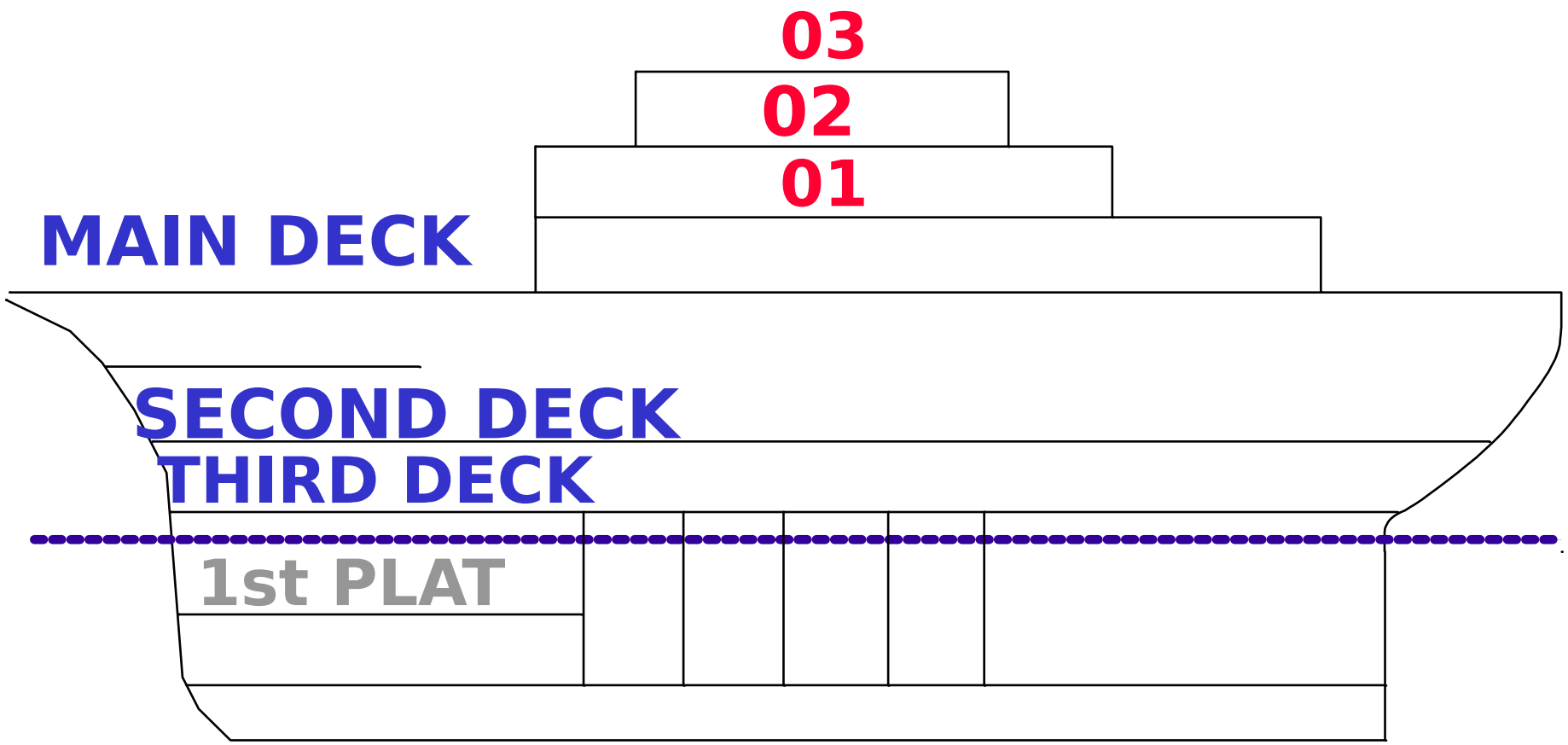
Numbered by the lowest deck within the space.



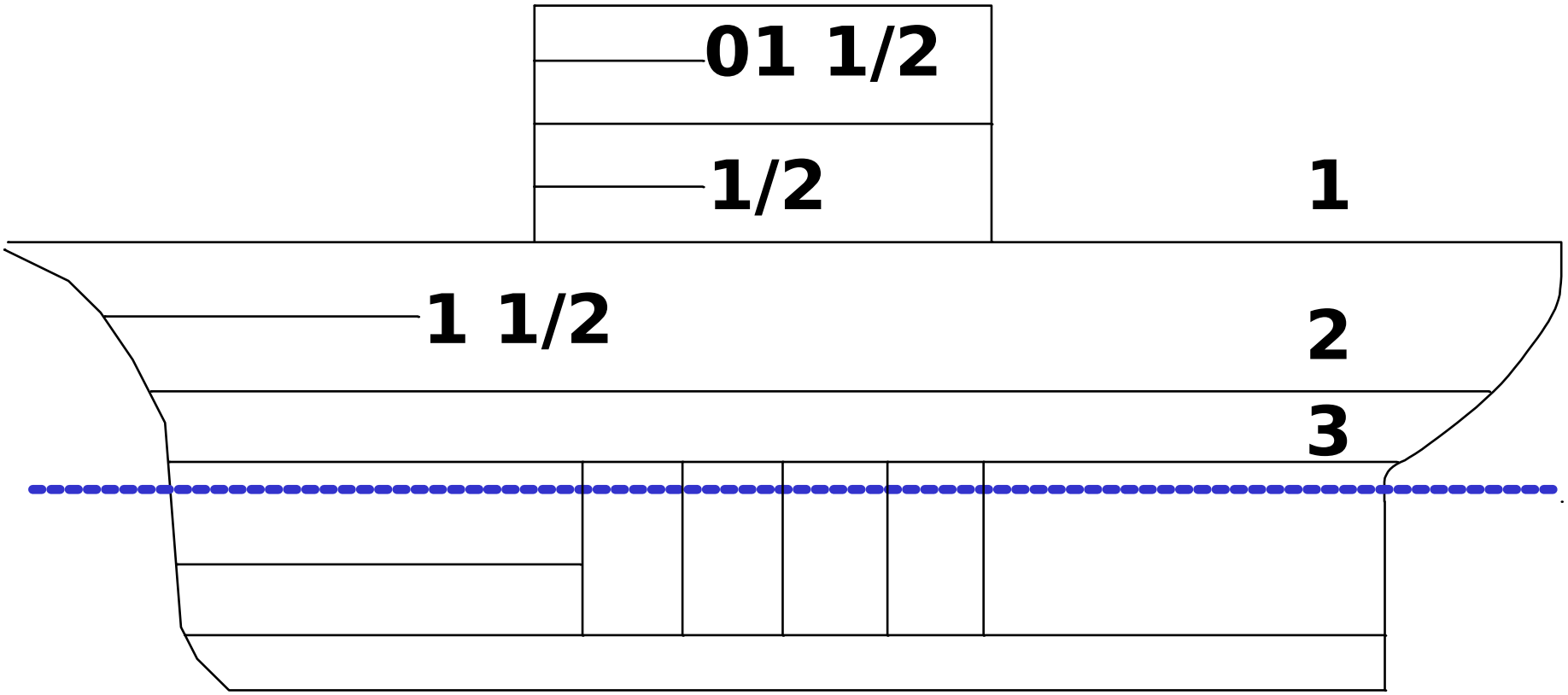
DEFINITIONS

- ***DC DECK:***
  - Uppermost deck through which transverse watertight bulkheads extend
  - Lowest deck providing fore and aft access

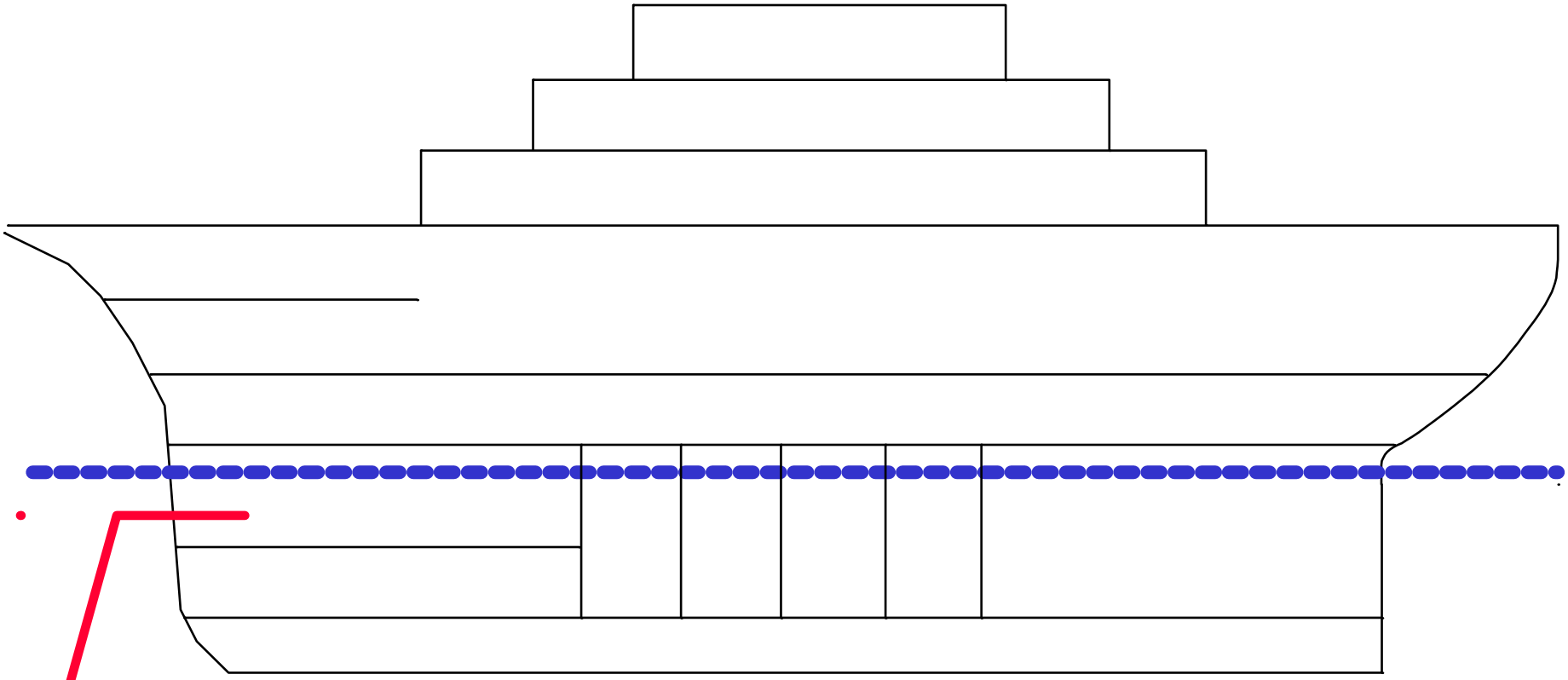
- ***MAIN DECK:***
  - Uppermost continuous deck
  - CV's:
    - Hangar deck


03
02
01
MAIN DECK
SECOND DECK
THIRD DECK
1st PLAT

HALF DECK NUMBERING



PLATFORM: A LEVEL BELOW THE LOWEST CONTINUOUS DECK

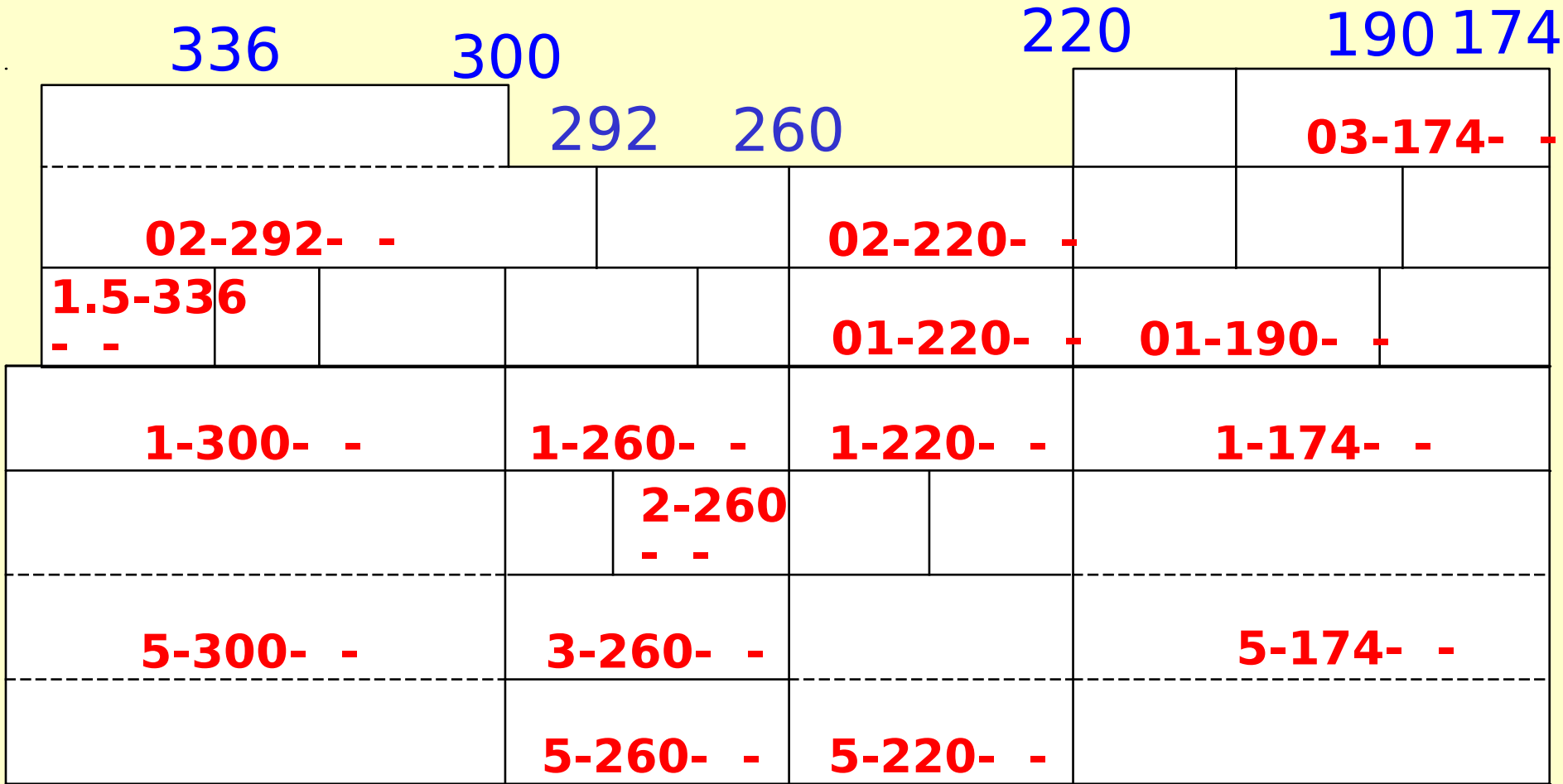


PLATFORM

Compartment Numbering

Frame Number

Numbered by the foremost frame within the space.

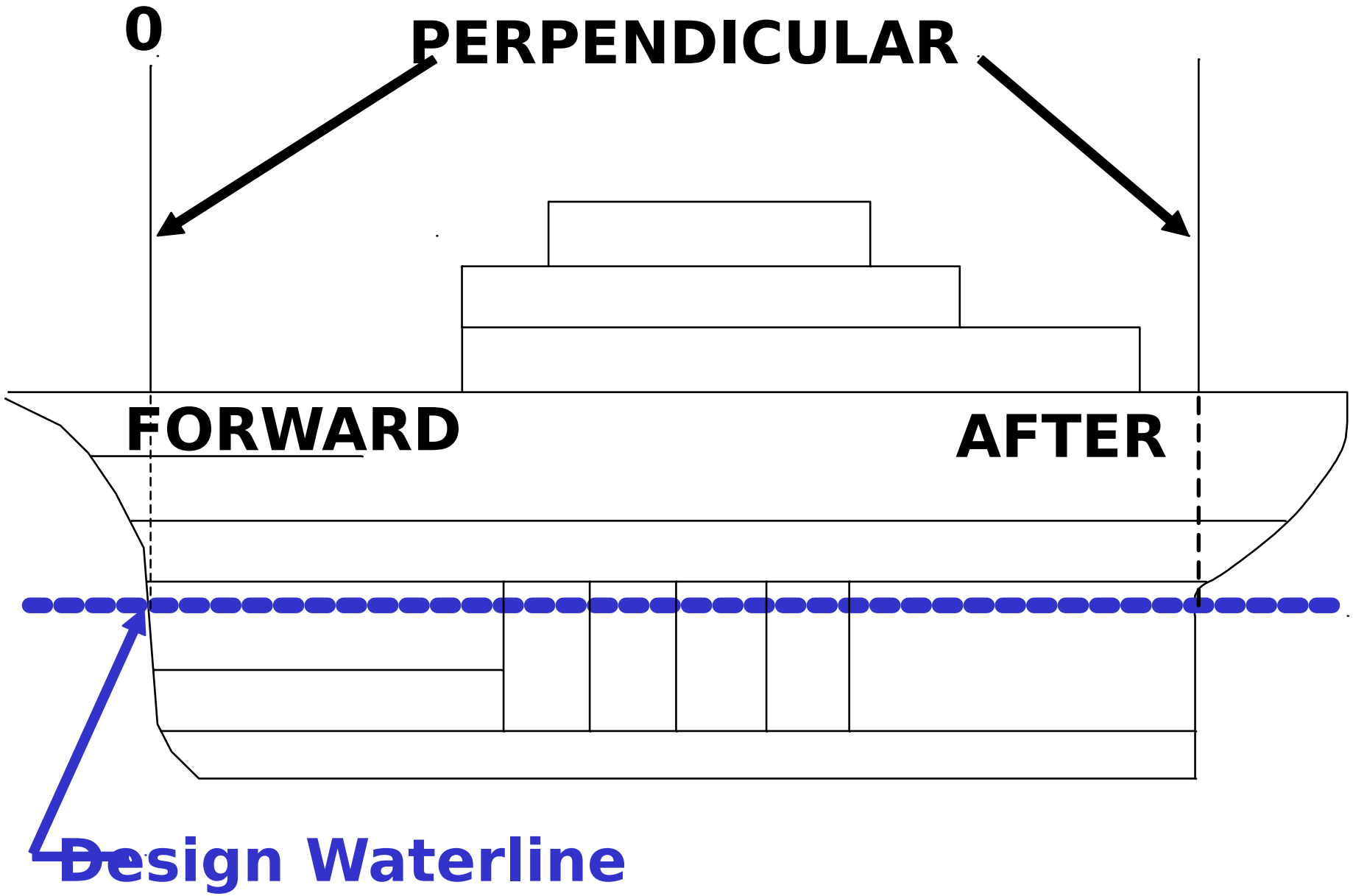


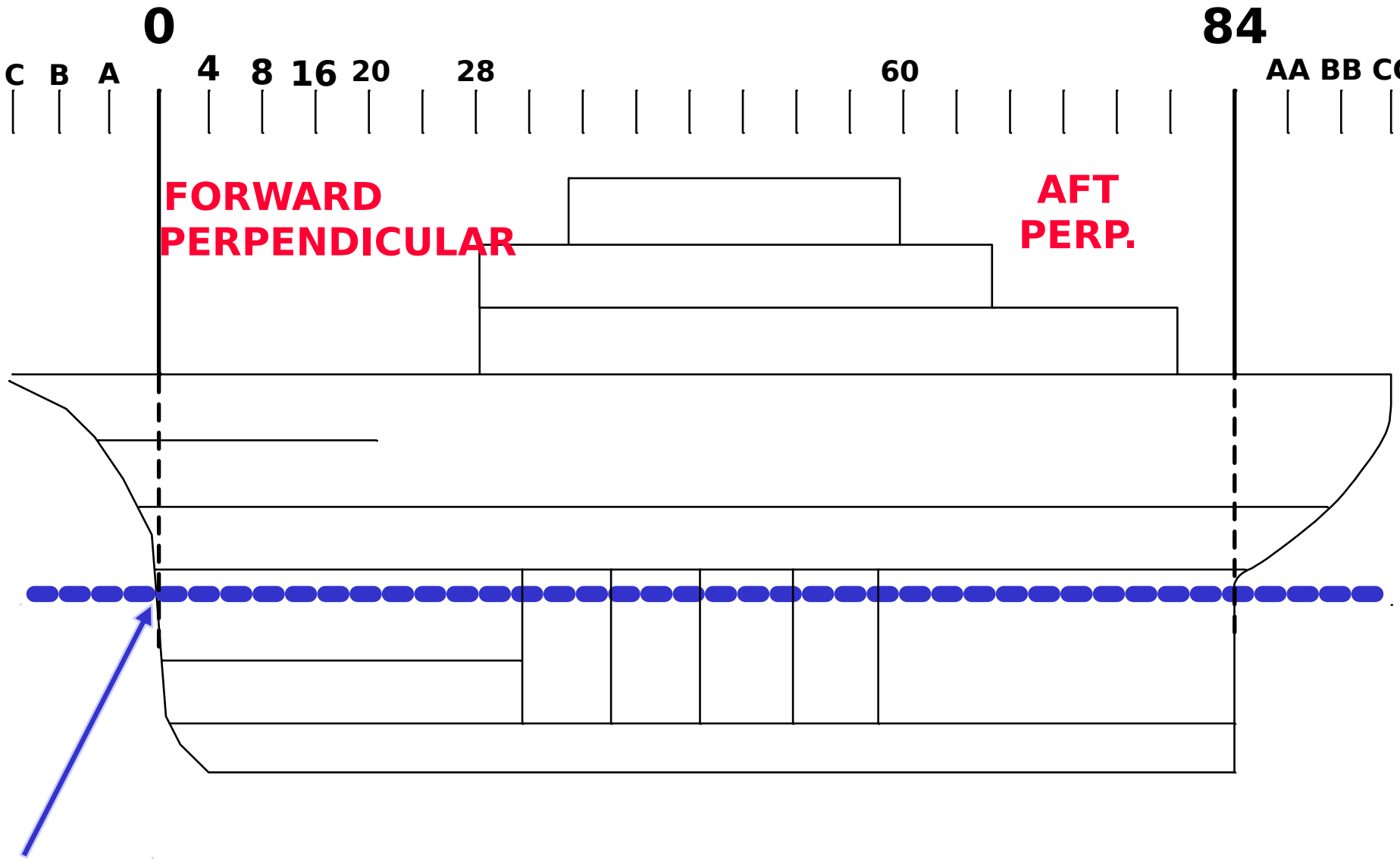
DEFINITIONS

- ***FRAME SPACING***:
  - Arbitrary unit of measurement denoting the distance between frames
  - ***Not*** necessarily the distance between structural frames.
  - USS BLUE RIDGE framing if 4 ft apart

DEFINITIONS

- FORWARD/AFT PERPENDICULARS:
  - ➲Most forward and aft points where the ***design*** waterline intersects the hull

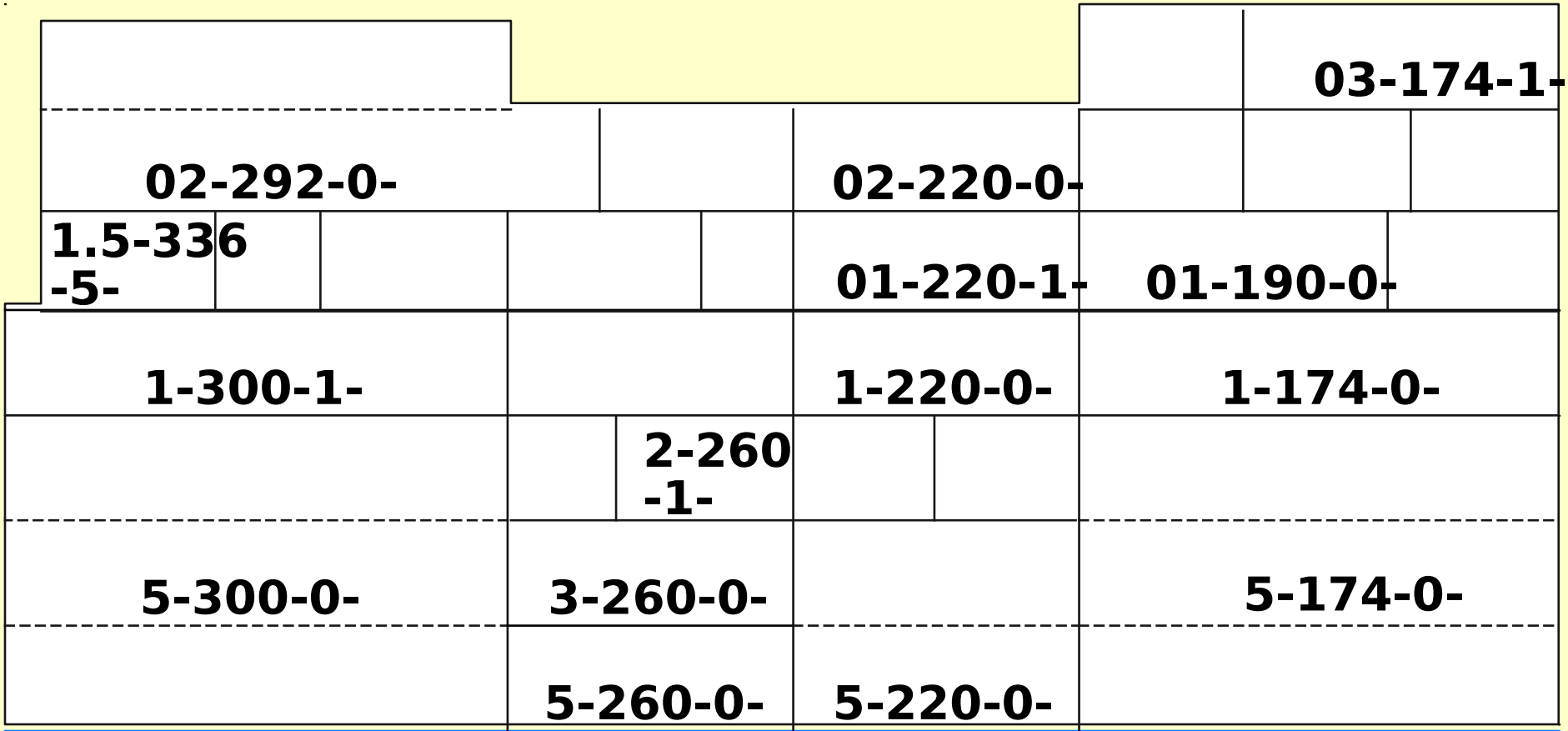

0
PERPENDICULAR
FORWARD
AFTER
Design Waterline


0
84
C B A
4 8 16 20 28 60
AA BB CC
FORWARD PERPENDICULAR
AFT PERP.
DESIGN WATERLINE

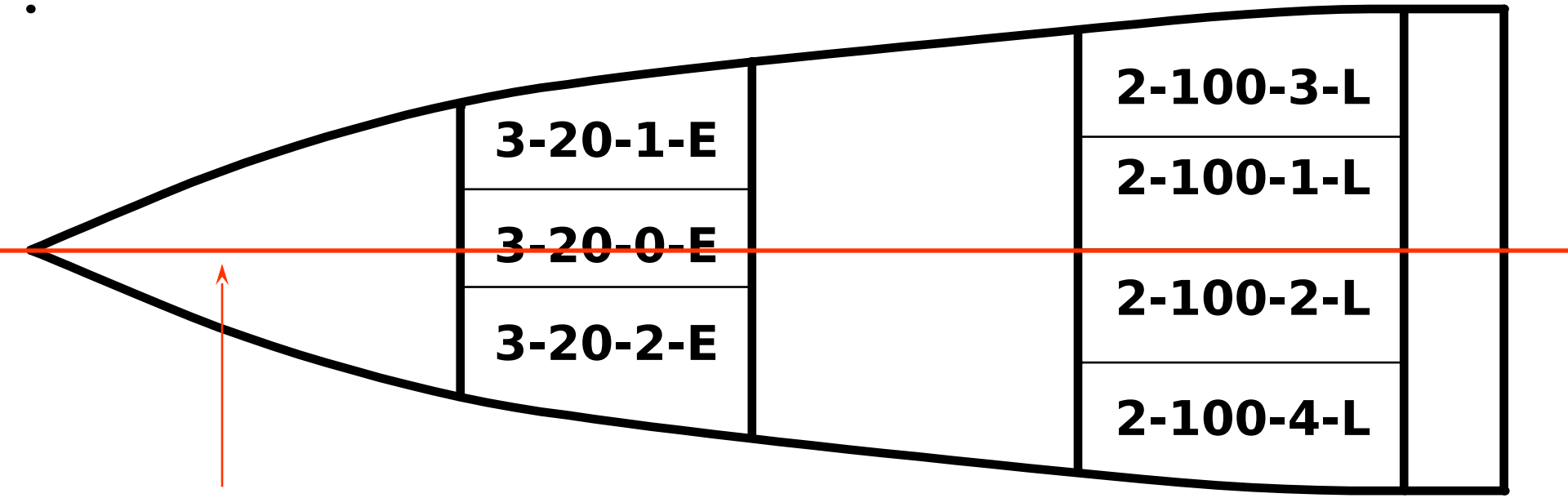
Compartment Numbering

Position in relationship to the centerline.

Zero for on the centerline, Even for port side, Odd for starboard.



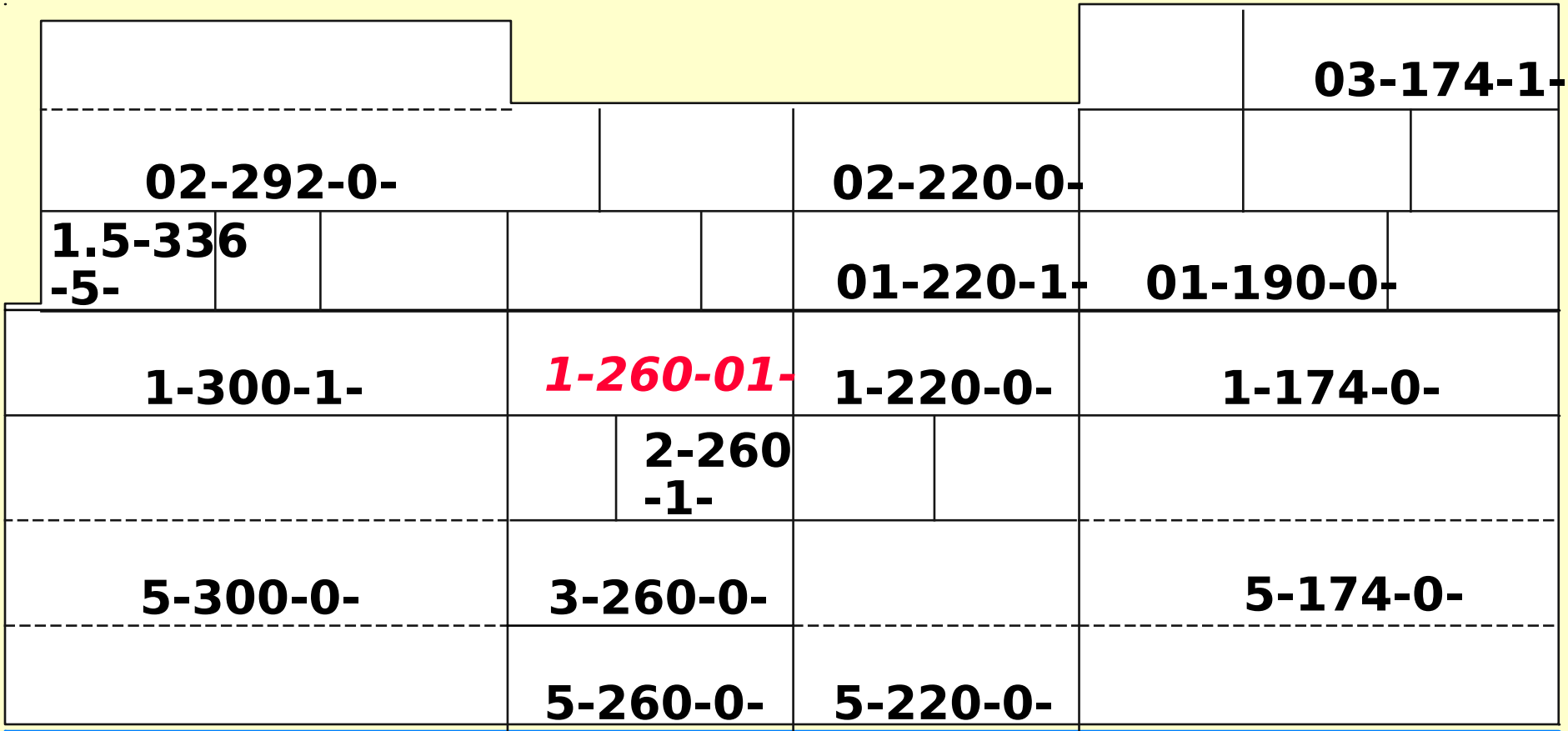
RELATION TO CENTERLINE

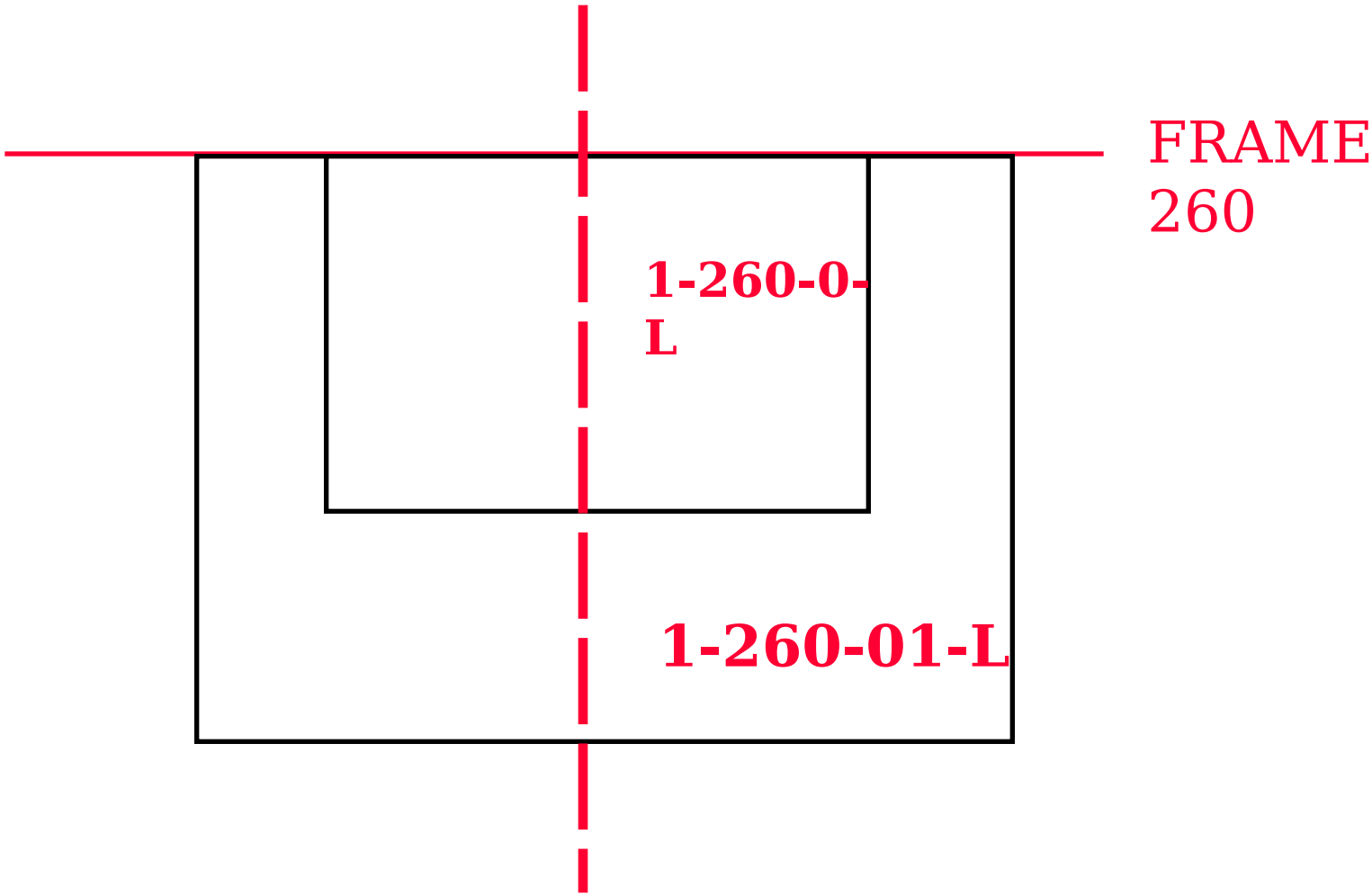


Compartment Numbering

Position in relationship to the centerline.

Zero for on the centerline, Even for port side, Odd for starboard.

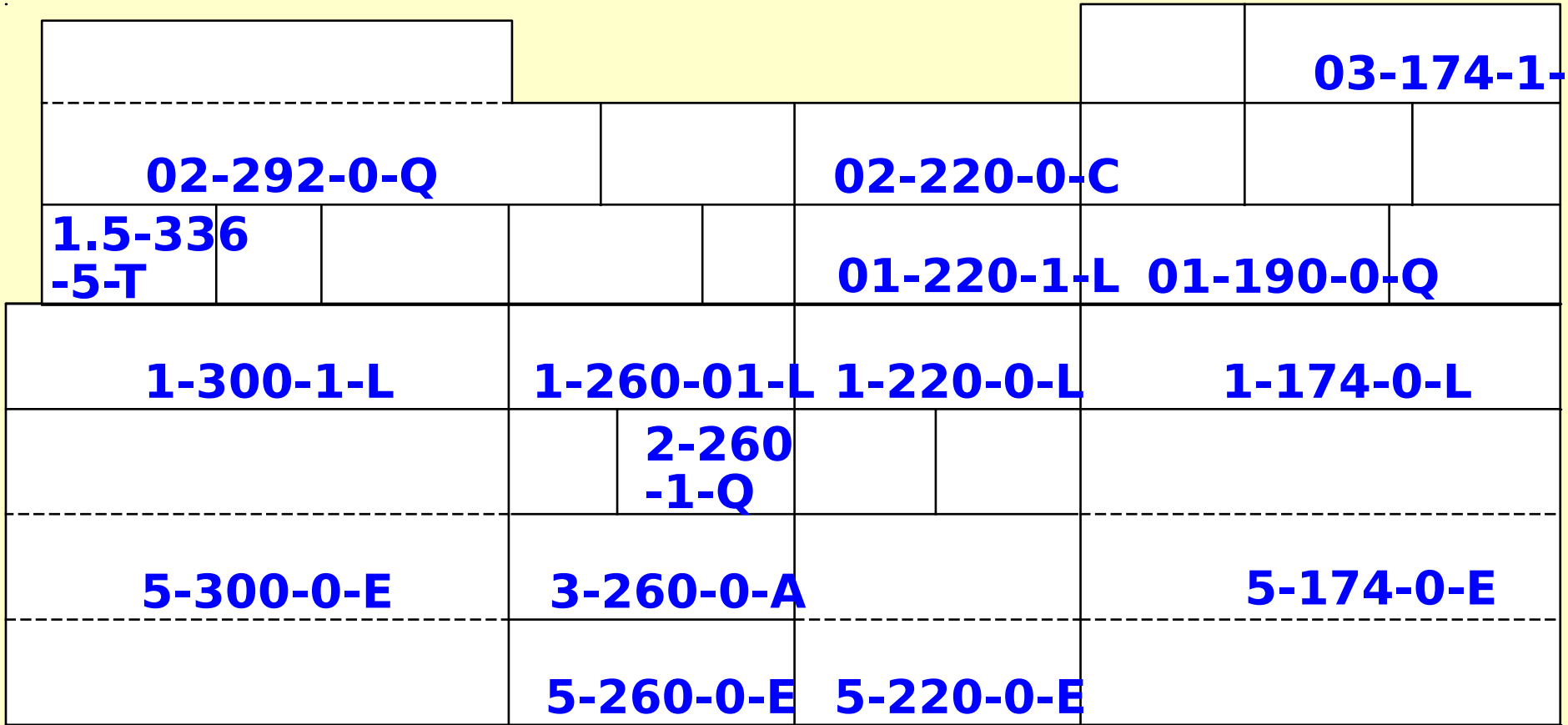



FRAME
260
1-260-0-
L
1-260-01-L
CL
1-260-
01-

Compartment Numbering

Space Use Identifier

Listed in NSTM 079 (V2) p.12



COMPARTMENT USE

A - STOWAGE
AA - CARGO HOLDS
C - VITAL SHIP/ FIRE CONTROL
E - ENGINEERING
F - FUEL
G - GASOLINE
K - CHEMICALS
L - LIVING SPACES
M - AMMUNITION
Q - MISCELLANEOUS
T - VERTICAL TRUNK
V - VOID
W - WATER/SEWAGE

BULLSEYES

- Painted on each bulkhead of each compartment
- Should be readily visible when entering space
- Photoluminescent paint
  - Except on weatherdecks
- Should not be hidden behind
  - Doors
  - File cabinets

Compartment Identification

5 - 300 - 0 - E

FR 300 - 346

M- DIV

"*Bull's Eye*"

Compartment Identification

5 - 300 - 0 - E

FR 300 - 346

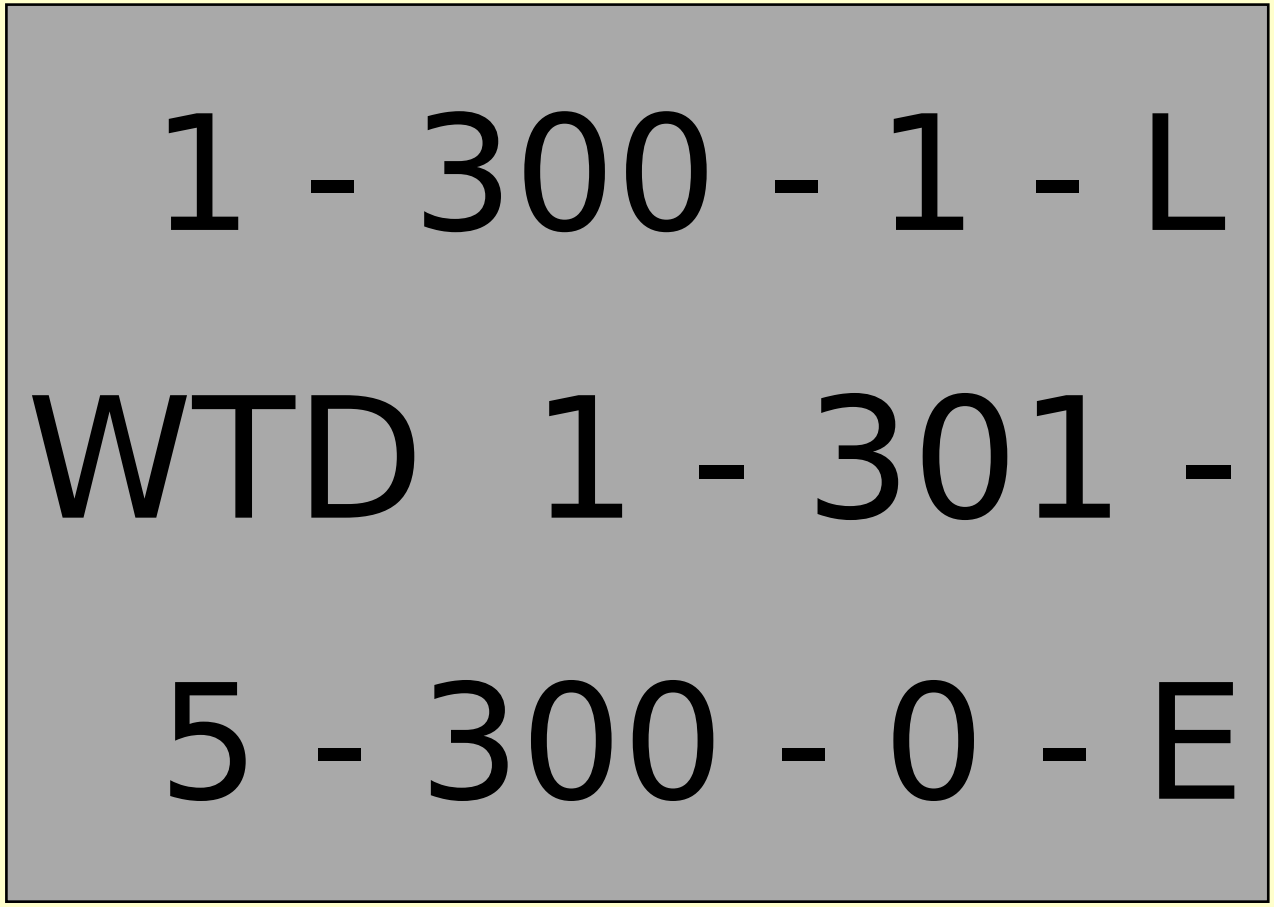
M- DIV

"*Bull's Eye*"

Compartment Designation Pl

- List numbers of access fitting
- Compartments on both sides
- Name of compartment accessed
- Located on bulkhead above access
- Can be located adjacent to access if not enough room
  - Side away from hinges

Compartment Designation Plate



Compartment Identification

Frame and Bulkhead Label Plate

- Installed in compartments over **24 feet** in length
- Installed every 24 feet of length on weatherdecks & hangar deck
- Transverse bulkhead label plate is installed in compt. having tightness requirement only if bhd can’t be ID’d by other means (i.e. access plate)

Frame and Bulkhead Label Plate

Compartment Identificatio

MOB-D-23-SF "LOCATING DC FITTINGS"

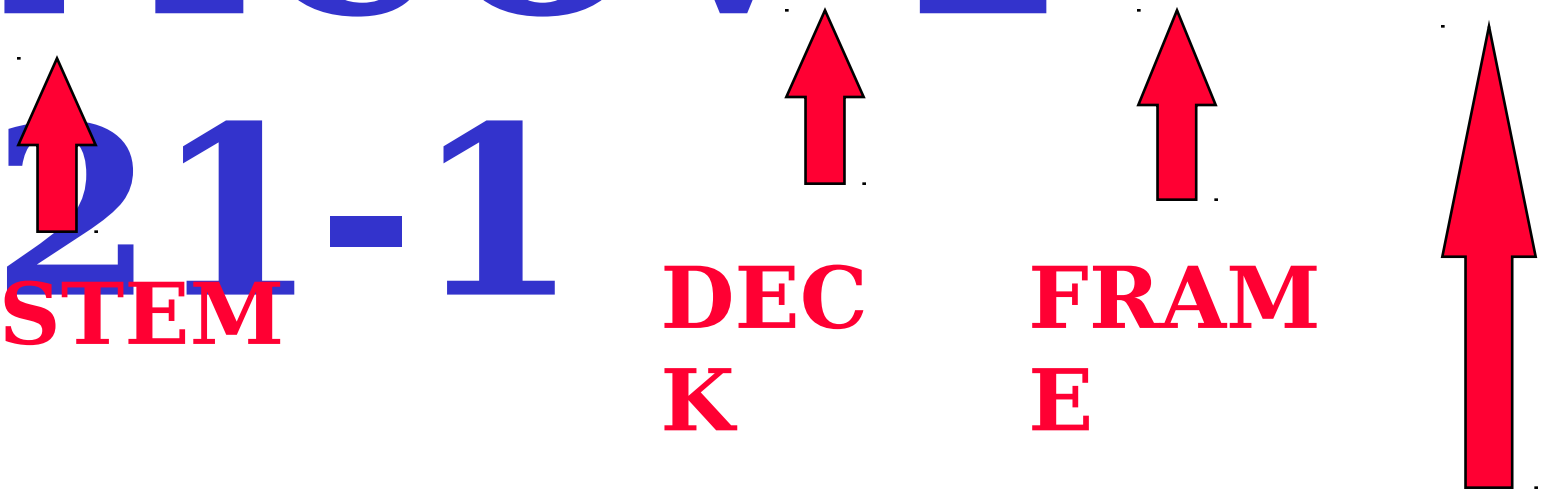
- Train repair party and duty and watch personnel in locating and operating DC fittings
- Marking factors:
  - Dissemination of reports
  - Ability of personnel to locate quickly designated fittings/equip.
  - Action of personnel in operating dc equipment & fittings

DC FITTING NUMBERING

- Similar to compartment numbering without fourth digit
- More than one fitting with same number
- Clarified by **type** of valve or by system
- Deck & frame designation are closest below & forward
- Relationship to centerline is by system. There may/may not be a “centerline valve”

DC FITTING NUMBERING

FMCOV 2-121-1



SYSTEM

DECK

FRAME

FIRST VALVE AT FRAME TO STBD

FITTING NUMBER EXERCISE

A new **cutout valve** in the **firemain system** is added. Valve is located in the fire room compartment **8-110-0-e.** It is on the lower level near the aft bulkhead. The aft bulkhead is **20 feet** away from the forward bulkhead. **Frame spacing is 30 inches**. It is is now the **5th** firemain valve in the system from the centerline valve to the **port.** What is the DC number of this valve?

1. IDENTIFY SYSTEM. **FM COV 8 1181-0**

2. FIREMAIN =

COV

3. WHERE IS IT LOCATED?

4. 8-110-0-E

5. IDENTIFY WHERE THE SYSTEM IS LOCATED IN SPACE.

6. 20 FEET FROM FWD BHD. FRAME SPACING IS 30 INCHES. 20FT X 12IN = 240 INCHES DIVIDED BY 30 INCHES = 8 FRAMES 110 + 8 = 118.

7. 5TH VALVE TO PORT OF CL. 2, 4, 6, 8, 10

COMPARTMENT CHECK OFF LISTS (CCOL'S)

- Required for every compartment or weatherdeck where DC facilities are located
- Permanently posted near each access opening or area
- Itemized list showing location of all classified fittings & other facilities useful for DC
- Posted for the ready use of personnel responsible for setting material conditions of readiness

COMPARTMENT CHECK OFF LISTS (CCOL'S)

- Prepared & supplied by shipbuilder
- Ship's force required to keep them current
- DCA must:
  - *Maintain* master CCOL hard copy file
  - *Maintain* backup disk when CCOL is computerized
  - *Approve* all changes to CCOL
- Pen & ink changes not authorized when CCOL is computerized

COMPARTMENT CHECK OFF LISTS (CCOL'S)

❶*Master*

- Kept by DCA
- One original copy of all CCOLs
- Stamped

Individual

- One entrance to space

❸*Duplicate*

- More than one entrance
- Stamped

Partial

- Alcoves
- Shows only DC fittings in area
- Stamped

AVAILABLE REFERENCES

- ***DCA***
  - DC BOOK
  - DC DIAGRAMS
  - RPM
  - MASTER CCOL'S
- ***ON SCENE LEADER***
  - CCOL'S
  - KNOWLEDGE OF AREA
- ***REPAIR PARTY LEADER/REPAIR PARTY OFFICER***
  - SHIP'S DC BOOK
  - SHIP'S DC DIAGRAMS
  - REPAIR PARTY MANUAL/REPAIR PARTY LEADER NOTEBOOK

SUMMARY AND REVIEW

Compartment Numbering and Identification

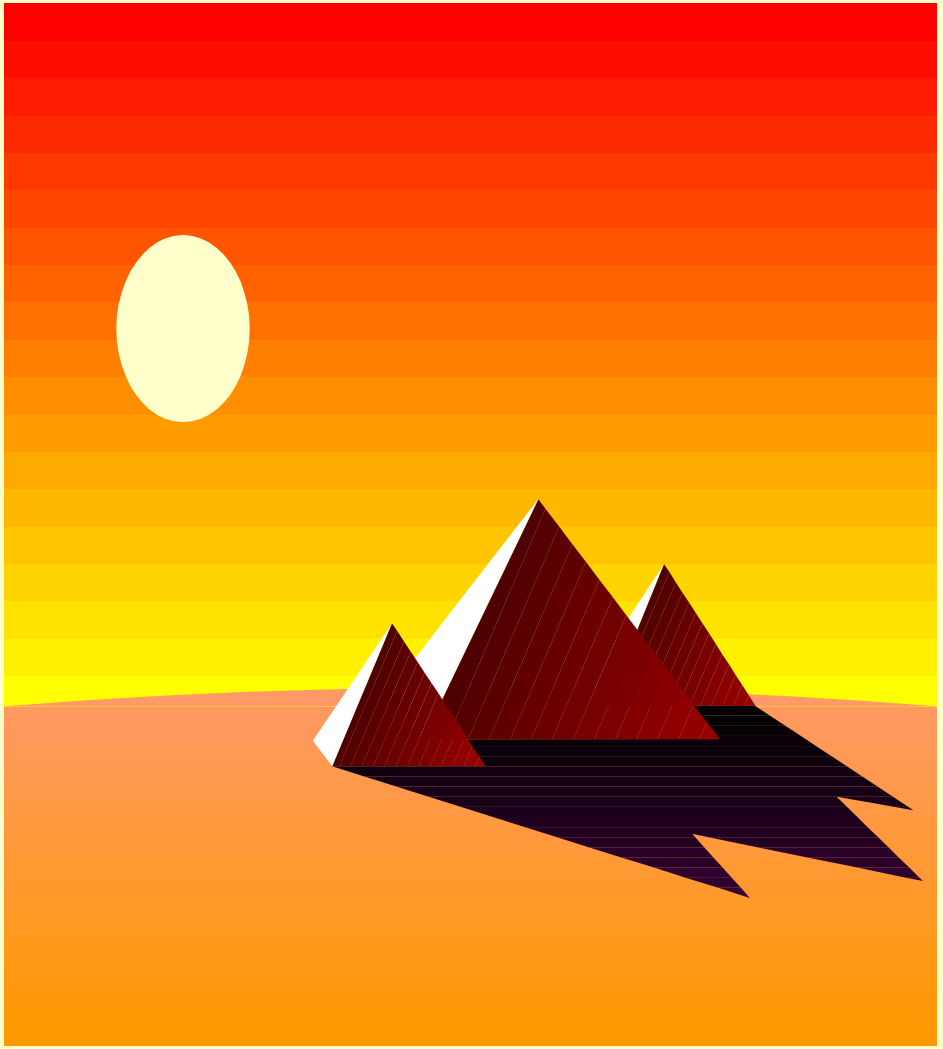
Damage Control Fitting Numbering and Identification

Available References

Compartment Checkoff Lists

QUESTION #1

- One frame label plate shall be installed in compartments over how many feet in fore-aft length?
- Answer
- 24 Feet



QUESTION #2

- What are the four types of CCOLs?
- Answer
- Master
- Partial
- Individual
- Duplicate

QUESTION #3

- True or False
  - All bullseyes on the ship must be painted in photo-luminescent paint.
- Answer
- False

THE END